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(Colonization Building,)

CITY OF WASHINGTON,

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—AND—

Prospectus of the Course of Instruction.

SIXTH SESSION, OCTOBER, 1877, TO MARCH, 1878.

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National College of Pharmacy,

(COLONIZATION BUILDING,)

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PROSPECTUS OF THE COURSE OF INSTRUCTION.

Sixth Session, October, 1877, to March, 1878.

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1877.

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Faculty.

EDWARD T. FRISTOE, A. M., LL. D., PHAR. D.,
Professor of General and Analytical Chemistry.

OSCAR OLDBERG, PHAR. D.,
Professor of Materia Medica and Botany.

A. M. READ, PHAR. D.,
Professor of Pharmacy and Toxicology.

ANNOUNCEMENT.

THE SIXTH ANNUAL SESSION of the National College of Pharmacy, Washington, District of Columbia, will commence at 7 o'clock p. m. on Monday, October 1, 1877, at the Lecture Rooms in the Colonization Building, corner of Pennsylvania Avenue and Four-and-a-half street. Lectures will be delivered on Monday and Thursday evenings, from 7 to 10 o'clock p. m., throughout the Session, which will close March 1, 1878. The College possesses an extensive cabinet of choice specimens of *materia medica and botany, chemical and pharmaceutical products*, and a valuable collection of *chemical and pharmaceutical apparatus* to be used in illustrating the Lectures.

It will readily be seen that this College offers superior inducements to the students of Pharmacy.

The Course of Instruction

will embrace Chemistry and Toxicology, Volumetric Analysis, Materia Medica and Botany, and the Theory and Practice of Pharmacy, and will be thorough and comprehensive.

These subjects will be taught both theoretically and practically, by means of Lectures and Recitations, fully illustrated by experiments, specimens, models, diagrams, &c., for which the College has provided ample facility. Students will have free access to the Library and Museum.

MATERIA MEDICA.

PROF. OSCAR OLDBERG.

1. As an introductory to this Course, a few lectures on Structural, Physiological, and Systematic Botany will be given.

2. Preliminary lectures on the proximate principles and

other substances of pharmaceutical importance occurring in plants and drugs.

3. The time and mode of collecting and the manner of preserving drugs generally.

4. Vegetable pharmacognosy.

5. Animal drugs will next be considered.

In the study of drugs, due consideration and attention will be given to their names and synonyms, whether obtained from plant or animal, parts used, natural, botanical, or zoological order, habitat, collection, preparation and preservation, commercial history and statistics, physical properties of good and bad drugs, characteristics by which the genuine article may be identified, resemblance to other drugs and substances, adulterations, other impurities, tests for purity, substitutes, intentional or accidental, non-official varieties of the drug, chemical composition, proximate principles, active principles, objectionable or inert contaminations, incompatibility, menstrua, uses, preparations, therapeutics, and doses.

All the drugs treated of will be exhibited, and, if possible, several grades of them, accompanied by specimens of the active or proximate principles isolated.

Plates and diagrams will be largely used for illustration, and tests will be applied to the specimens before the class.

Recitations will also form an important part of the Course.

Arrangements will be made for Botanical Excursions in April, under the direction of an experienced botanist. Attendance on this Course is optional, but it is hoped the students will avail themselves of the facilities thus afforded to become practically acquainted with our domestic flora.

CHEMISTRY AND TOXICOLOGY.

PROF. EDWARD T. FRISTOE.

The instruction in this department includes—

1. A brief discussion of the various branches of Physics,

as Pneumatics, Heat, Light, Electricity, &c., as far as they relate to the science of Chemistry.

2. The principles of Chemical Philosophy and Chemical Notation, the laws of Chemical Combination, and those of Chemical Affinity (chemism) in general will be presented in accordance with the recent improvements in the science.

3. The elementary bodies, both non-metallic and metallic, will be classified, and the best methods of preparing the various inorganic bodies, their properties and reactions, and the means of detecting their presence, will be discussed.

4. The so-called "organic bodies" will be classified and considered, so far as time will permit, especially those with which the Pharmacist most frequently comes in contact, such as organic acids and their salts, alkaloids, &c., &c.

5. Poisons, with tests for their detection, and their most appropriate antidotes.

Throughout the entire Course the applications of Chemistry to Pharmacy and Medicine will be brought before the students, and the principles of the science abundantly illustrated by experiments.

The principles of Analytical Chemistry will be explained and illustrated in the class-room, and advanced students will have an opportunity of taking practical lessons in the Laboratory twice a week.

PHARMACY.

PROF. A. M. READ.

The Lectures in this Department will embrace the thorough consideration of weights and measures, specific gravity, general mechanical and pharmaceutical processes and manipulations, the pharmacy and chemistry of the official processes of the United States Pharmacopœia, and the application of the tests of purity prescribed for pharmacopœial preparations;

extemporaneous pharmacy, incompatibles, &c. Pharmaceutical preparations will receive proper attention, according to their importance, whether official or not.

Attention will be called to the best manner of conducting successfully the various operations of the Laboratory and Dispensing Department, and how dangerous errors and defects may be avoided.

The lectures throughout the Course will be amply illustrated.

Professor Read will also teach Volumetric Analysis, now deemed an essential part of modern practical pharmaceutical education.

Text-Books and Works of Reference.

MATERIA MEDICA: *Royle's Materia Medica.* By Harley.
Gray's Text-books on Botany.
Pharmacographia. By Flückiger & Haubury.

CHEMISTRY: *Attfield's Chemistry, Fowne's, Barker's, Bloxam's,* or *Miller's Chemistry.*

PHARMACY: *Parrish's Pharmacy.*
The Pharmacopœia of the United States. Fifth revision.
The United States Dispensatory. By Wood & Bache.
Sutton's Volumetric Analysis.

THE DEGREE OF DOCTOR OF PHARMACY

will be conferred upon candidates who shall possess the following

Qualifications for Graduation.

All students, *to be entitled to the degree of this College*, must have arrived at the age of twenty-one years; have attended TWO FULL COURSES of lectures, *the last of which at least* must have been in this College; have had at least FOUR YEARS' PRACTICAL EXPERIENCE with some reputable pharmacist or pharmacists; have presented to the Examining Board an *original and acceptable thesis*, in their own hand-writing, upon some subject pertaining to Pharmacy; have been recommended in writing, after a *thorough examination* in all the branches taught

and in their application in practice, by the Board of Examiners and the Professors jointly, and have paid all dues to the Treasurer.

Certificates.

A Certificate of Qualification, when desired, will be given to students who have attended one course of lectures and passed a satisfactory examination in the elementary branches. This certificate will enable the holder to obtain, with greater facility, a situation in some first-class store where such theoretical knowledge may be considered desirable.

Fees:

Matriculation, (paid only once,) - - - - -	$5 00
Lecture tickets, for full course, - - - - - -	25 00
Single ticket, for either branch - - - - -	10 00
Certificate of Qualification - - - - - - -	5 00
Spring course in Botany - - - - - - -	5 00
Diploma - - - - - - - - - - - - - -	15 00

Parties outside the city who desire to attend lectures in this College will be provided, as far as possible, with situations. Such applications, stating whether or not the applicant has had any experience in the drug business, should be addressed to JOHN W. DREW, corner Pennsylvania avenue and Ninth street N. W., Washington, D. C.

For further information, apply to J. C. FILL, Secretary, or to any member of the Faculty.

STUDENTS, 1876–77.

C. M. Ball,
S. W. Bower,
Thomas M. Coombs,
Oscar H. Coumbe,
T. E. Chidester,
F. M. Creswell,
E. R. Douglas,
C. G. Dulin,
F. Fickling,
E. Gladmon,
T. A. T. Judd,
A. W. Miller,
T. G. DeMoll,
Thomas McGork,
George Prutee,
J. B. Robertson,
J. J. Stafford,
O. Smith,
H. Standiford,
P. Wood,
J. W. Dunn.

ALUMNI—1873.

C. R. Dufour, D, C.
A. M. Read, Mich.
*Wm. B. Heiskill, Penna.

1874.

T. P. Cole, D. C.
*F. S. Gaither, D. C.
*Charles LeRoy Sayre, N. Y.

1875.

A. S. Taber, N. Y.
E. M. Taber, N. Y.
H. Kalussowski, D. C.
W. F. Scala, D. C.

1876.

Henry Adams, Mass.
D. F. Owens, Md.
Snider Noell, Md.
Frank Pitzer, Va.

1877.

T. E. Chidester, Ohio.
T. G. DeMoll, D. C.
T. M. Coombs, D. C.
C. G. Dulin, D. C.
John J. Stafford, Md.

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"We were especially interested in studying the manufacture of Perfumery in this country. Nothing is more dangerous, after the adulteration of food, than the use of perfumery, the preparation of which is deleterious. Our examination of the American section has, we regret to say, shown us few specimens which we could recommend. It therefore becomes the more necessary that we should mention those products, the analytical examination of which was perfectly satisfactory to us. We speak of the perfumes prepared by the LUNDBORG PROCESS, and manufactured by the house of YOUNG, LADD & COFFIN, of New York. Without stopping to give too long a description, we will confine ourselves to mentioning their CALIFORNIA WATER, for the Toilet and Bath, (a preparation which is perfectly healthful,) and more especially their Extracts for the Handkerchief, the distillation of which, being admirably combined, produces perfumes of great sweetness and delicacy and with a special property of their own, by which these extracts can, unquestionably, enter into competition with those of the best known French and English makers."

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